

IN THE CLAIMS:

1. (currently amended) An end face polishing ~~device,~~
~~comprising device for polishing an end face of a workpiece,~~
~~comprising: a polishing sheet having a polishing surface; a~~
~~pressing unit pressing an end face of a fixed bar member to a~~
~~polishing sheet and a driving unit for driving the polishing~~
~~sheet to impart a roulette-like motion to the polishing sheet~~
~~while rotating the polishing sheet about a rotational axis;~~
~~and a pressing unit for pressing a workpiece during driving of~~
~~the polishing sheet by the driving unit to bring an end face~~
~~of the workpiece into pressure contact with the polishing~~
~~surface so that the polishing surface lies in a plane parallel~~
~~to the end face of the workpiece to thereby polish the end~~
~~face of the workpiece. in roulette shape moving while rotating~~
~~on circumference parallel to the end face of the bar member.~~

2. (currently amended) An end face polishing device
comprising: device, having a rotating shaft eccentric from
revolution center of a first revolution shaft mounted for
undergoing revolving movement about a first axis; a rotational
shaft mounted for undergoing rotation about a second axis
eccentric from the first axis; a in the revolution shaft, a
second revolution shaft mounted for undergoing revolving
movement about a third axis eccentric from the second axis;
and rotating center of the rotating shaft in the rotating

shaft, and a polishing disc connected to the second revolution shaft for revolving movement therewith.

3. (currently amended) An end face polishing device according to claim 2; further comprising a frame for connecting an elastic body to a surface of the polishing disc; and wherein ~~Claim 2, wherein~~ the second revolution shaft has an internal gear ~~fixed at~~ connected to the a frame, ~~a of the end face polishing device,~~ a first transfer gear engaging with the internal gear, a ~~rotating shaft~~ rotational member having a second transfer gear disposed opposite to ~~at opposite end portion of the end portion of~~ the first transfer gear, and an external gear engaging with the second transfer gear.

4. (currently amended) An end face polishing device according to ~~Claim 3, wherein~~ claim 3; wherein the first revolution shaft is connected to a motor through a first timing belt.

5. (currently amended) An end face polishing device according to ~~Claim 4, wherein~~ claim 4; wherein the rotational ~~rotating~~ shaft is connected to the motor through a second ~~another~~ timing belt.

6. (currently amended) An end face polishing device according to ~~Claim 2, having~~ claim 2; further comprising an ultrasonic actuator contacting an external circumference

portion of the first revolution shaft for rotationally driving
the rotational and ~~rotating the rotating~~ shaft.

7. (currently amended) A method for polishing an
end face of a workpiece, comprising the steps of: providing a
polishing sheet having a polishing surface; driving the
polishing sheet to impart a roulette-like motion to the
polishing sheet while rotating the polishing sheet about a
rotational axis; and pressing an end face of a fixed bar
~~member to a polishing sheet and driving the polishing sheet in~~
~~roulette shape moving while rotating on circumference parallel~~
~~to the end face of the bar member.~~ a workpiece during driving
of the polishing sheet to bring an end face of the workpiece
into pressure contact with the polishing surface so that the
polishing surface lies in a plane parallel to the end face of
the workpiece to thereby polish the end face of the workpiece.

8. (currently amended) A method according to claim
7; wherein the roulette-like motion comprises a motion
generally in the form of a ~~for polishing an end face according~~
~~to Claim 7, wherein the roulette is cycloid.~~

9. (currently amended) A method according to claim
7; wherein the roulette-like motion comprises a motion
generally in the form of an ~~for polishing an end face~~
~~according to Claim 7, wherein the roulette is internal cycloid.~~

10. (currently amended) A method according to claim 7; wherein the roulette-like motion comprises a motion generally in the form of an ~~for polishing an end face according to Claim 7, wherein the roulette is external cycloid.~~

11. (currently amended) A method according to claim 7; wherein the roulette-like motion comprises a motion generally in the form of a trochoid ~~for polishing an end face according to Claim 7, wherein the roulette is relative trochoid inscribed to in a first circle and drawn by a point fixed at on a second circle smaller in diameter than the first circle.~~

12. (currently amended) A method according to claim 7; wherein the roulette-like motion comprises a motion generally in the form of an internal trochoid ~~for polishing an end face according to Claim 7, wherein the roulette is relative trochoid inscribed to in a first circle and drawn by a point fixed in a second circle smaller in diameter than the first circle.~~

13. (currently amended) A method according to claim 7; wherein the roulette-like motion comprises a motion generally in the form of an external trochoid ~~for polishing an end face according to Claim 7; wherein the roulette is relative trochoid inscribed to in a first circle and drawn by a point fixed outside of a out of the second circle smaller in diameter than the first circle.~~

14. (currently amended) A method according to claim 7; wherein driving step includes the step of driving the polishing sheet using an ~~for polishing an end face, wherein the driving is performed by a XY movement table.~~

15. (currently amended) A method according to claim 7; wherein the driving step includes the step of driving the polishing sheet with a variable ~~for polishing an end face according to Claim 7, wherein the driving speed is variable.~~